

IN THE CLAIMS

Please amend claims 15, 16, 18 and 21. Please carry forward claims 17, 19, 20 and 22-34, all as follows:

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15. (Amended) A cylinder of a rotary printing press comprising:

a cylinder base body having a cylinder base body outer circumference;

a cylinder outer body supported on, and spaced from said cylinder base body, said cylinder outer body having an inner surface and an outer shell surface;

a multiplex-threaded spiral shaped conduit on said cylinder base body outer circumference; and

a plurality of spiral-shaped flow paths, through which a tempering medium can flow, said plurality of spiral-shaped flow paths and being defined by said multiplex-threaded spiral shaped conduit on said cylinder base body circumference and said inner surface of said cylinder outer body, said circumference having a multiplex-threaded, spiral shaped conduit; said outer shell surface of said cylinder outer body conducting printing ink.

16. (Amended) The cylinder of claim 15 further including strips on said cylinder base body circumference, said strips defining said multiplex-threaded spiral shaped conduit and supporting said cylinder outer body on said cylinder base body.

17. (Previously Added) The cylinder of claim 15 wherein said conduit is octuply-threaded.

18. (Amended) The cylinder of claim 15 wherein said conduit has a first cross-sectional area and further wherein said cylinder outer body ~~has a shell surface~~ has ~~having~~ a second cross-sectional area and wherein a ratio of said first and second cross-sectional areas is in the range of 1:1200 to 1:1600.

19. (Previously Added) The cylinder of claim 16 wherein said strip has a first width and further wherein said cylinder outer body has a wall thickness, and wherein a ratio of said first width to said wall thickness is less than or equal to 2.

20. (Previously Added) The cylinder of claim 19 wherein said ratio of said first width to said wall thickness is less than or equal to 1.5.

21. (Amended) A cylinder of a rotary printing press comprising:

a cylinder base body having a cylinder base body outer circumference;

a cylinder outer body spaced from said cylinder base body and having an inner surface and a outer ~~a~~ shell surface; and

an axially extending gap defined by said spaced cylinder base body outer circumference and said cylinder outer body inner surface and through which a

tempering medium can flow, said gap having a generally annular ~~circular~~ profile, said gap having a cross-section area, said shell surface having a shell surface area, a ratio of said gap cross-section area to said shell surface area being between 1:200 and 1:600.

22. (Previously Added) The cylinder of claim 21 wherein said cylinder base body and said cylinder outer body are unsupported by each other.

23. (Previously Added) The cylinder of claim 21 wherein said ratio is between 1:300 and 1:500.

24. (Previously Added) The cylinder of claim 21 wherein said gap has a gap clearance of between 2 to 5 mm.

25. (Previously Added) The cylinder of claim 15 further including a supply line and a removal line for said tempering medium.

26. (Previously Added) The cylinder of claim 21 further including a supply line and a removal line for said tempering medium.

27. (Previously Added) The cylinder of claim 25 further including at least one journal for supporting said cylinder, said supply line and said removal line being coaxially arranged in said journal.

28. (Previously Added) The cylinder of claim 26 further including at least one journal for supporting said cylinder, said supply line and said removal line being coaxially arranged in said journal.

29. (Previously Added) The cylinder of claim 15 wherein said cylinder is an inking roller.

30. (Previously Added) The cylinder of claim 21 wherein said cylinder is an inking roller.

31. (Previously Added) The cylinder of claim 15 wherein said cylinder is a screen roller.

32. (Previously Added) The cylinder of claim 21 wherein said cylinder is a screen roller.

33. (Previously Added) The cylinder of claim 15 wherein said cylinder outer body has a wall thickness and an axial length and further wherein a ratio of said wall thickness to said axial length is in a range of 1:200 to 1:1200.

34. (Previously Added) The cylinder of claim 33 wherein said range is between 1:400 and 1:1000.